

Pt. 98, Subpt. W, Table W-5

40 CFR Ch. I (7-1-13 Edition)

Underground natural gas storage	Emission factor (scf/hour/ component)
Population Emission Factors—Storage Wellheads, Gas Service	
Connector	0.01
Valve	0.1
Pressure Relief Valve	0.17
Open Ended Line	0.03
Population Emission Factors—Other Components, Gas Service	
Low Continuous Bleed Pneumatic Device Vents ²	1.37
High Continuous Bleed Pneumatic Device Vents ²	18.20
Intermittent Bleed Pneumatic Device Vents ²	2.35

¹ Valves include control valves, block valves and regulator valves.² Emission Factor is in units of "scf/hour/device."

[76 FR 80593, Dec. 23, 2011]

TABLE W-5 OF SUBPART W OF PART 98—DEFAULT METHANE EMISSION FACTORS FOR LIQUEFIED NATURAL GAS (LNG) STORAGE

LNG storage	Emission factor (scf/hour/ component)
Leaker Emission Factors—LNG Storage Components, LNG Service	
Valve	1.19
Pump Seal	4.00
Connector	0.34
Other ¹	1.77
Population Emission Factors—LNG Storage Compressor, Gas Service	
Vapor Recovery Compressor ²	4.17

¹ "Other" equipment type should be applied for any equipment type other than connectors, pumps, or valves.² Emission Factor is in units of "scf/hour/device."

[76 FR80594, Dec. 23, 2011, as amended at 77 FR 51495, Aug. 24, 2012]

TABLE W-6 OF SUBPART W OF PART 98—DEFAULT METHANE EMISSION FACTORS FOR LNG IMPORT AND EXPORT EQUIPMENT

LNG import and export equipment	Emission factor (scf/hour/ component)
Leaker Emission Factors—LNG Terminals Components, LNG Service	
Valve	1.19
Pump Seal	4.00
Connector	0.34
Other ¹	1.77
Population Emission Factors—LNG Terminals Compressor, Gas Service	
Vapor Recovery Compressor ²	4.17

¹ "Other" equipment type should be applied for any equipment type other than connectors, pumps, or valves.² Emission Factors is in units of "scf/hour/compressor."

[76 FR 80594, Dec. 23, 2011]

TABLE W-7 OF SUBPART W OF PART 98—DEFAULT METHANE EMISSION FACTORS FOR NATURAL GAS DISTRIBUTION

Natural gas distribution	Emission factor (scf/hour/ component)
Leaker Emission Factors—Transmission-Distribution Transfer Station¹ Components, Gas Service	

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Natural gas distribution	Emission factor (scf/hour/ component)
Connector	1.69
Block Valve	0.557
Control Valve	9.34
Pressure Relief Valve	0.27
Orifice Meter	0.212
Regulator	0.772
Open-ended Line	26.131
Population Emission Factors—Below Grade Metering-Regulating station ¹ Components, Gas Service ²	
Below Grade M&R Station, Inlet Pressure > 300 psig	1.30
Below Grade M&R Station, Inlet Pressure 100 to 300 psig	0.20
Below Grade M&R Station, Inlet Pressure < 100 psig	0.10
Population Emission Factors—Distribution Mains, Gas Service ³	
Unprotected Steel	12.58
Protected Steel	0.35
Plastic	1.13
Cast Iron	27.25
Population Emission Factors—Distribution Services, Gas Service ⁴	
Unprotected Steel	0.19
Protected Steel	0.02
Plastic	0.001
Copper	0.03

¹ Excluding customer meters.

² Emission Factor is in units of "scf/hour/station."

³ Emission Factor is in units of "scf/hour/mile."

⁴ Emission Factor is in units of "scf/hour/number of services."

[76 FR 80594, Dec. 23, 2011]

Subpart X—Petrochemical Production

§ 98.240 Definition of the source category.

(a) The petrochemical production source category consists of all processes that produce acrylonitrile, carbon black, ethylene, ethylene dichloride, ethylene oxide, or methanol, except as specified in paragraphs (b) through (g) of this section. The source category includes processes that produce the petrochemical as an intermediate in the on-site production of other chemicals as well as processes that produce the petrochemical as an end product for sale or shipment off site.

(b) A process that produces a petrochemical as a byproduct is not part of the petrochemical production source category.

(c) A facility that makes methanol, hydrogen, and/or ammonia from synthesis gas is part of the petrochemical source category if the annual mass of methanol produced exceeds the indi-

vidual annual mass production levels of both hydrogen recovered as product and ammonia. The facility is part of subpart P of this part (Hydrogen Production) if the annual mass of hydrogen recovered as product exceeds the individual annual mass production levels of both methanol and ammonia. The facility is part of subpart G of this part (Ammonia Manufacturing) if the annual mass of ammonia produced exceeds the individual annual mass production levels of both hydrogen recovered as product and methanol.

(d) A direct chlorination process that is operated independently of an oxychlorination process to produce ethylene dichloride is not part of the petrochemical production source category.

(e) A process that produces bone black is not part of the petrochemical source category.

(f) A process that produces a petrochemical from bio-based feedstock is not part of the petrochemical production source category.